

UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Elmar Stumpf
 Application Number: Unassigned
 Filing Date: Concurrently Herewith
 Group Art Unit:
 Examiner:
 Title: GAS BURNER FOR LIQUID FUELS

Commissioner for Patents
 PO Box 1450
 Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. 1.98, I am submitting a completed "INFORMATION DISCLOSURE STATEMENT BY APPLICANT" (*Form PTO/SB/08A*) with patents and/or publications as delineated therein attached.

DE 101 61 154 discloses that the burner has an evaporator which is in one piece consisting of two identical tubular sectors (1, 2), the open ends of which are connected together to the input tube (3). The jet (4) is fitted in the transition zone between the two sectors. The burner includes a baffle device (5) in the form of a plate-shaped metal part.

DE 31 30 542 – English abstract not available.

DE 34 29 686 – English abstract not available.

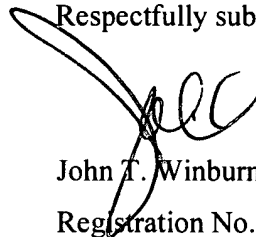
DE 195 18 787 discloses that the burner has several oil vapour jets introduced radially or axially into the airstream. These jets are free of turbulence. Preferably the evaporation takes place in conditions differing from atmospheric. The fuel vapour in front of the nozzle outlet is under a gauge pressure between 10 and 1000 kPa, preferably between 100 and 500 kPa.

DE 100 42 479 discloses a catalytic fuel oxidation unit includes a capillary flow path where liquid fuel is transported, preferably under no external pressure. At the end of the capillary section, the fuel is evaporated. Vaporized fuel is mixed (3) with air. A gas-permeable catalyst (4) surrounds the mixing zone where pre-mixed fuel and air are oxidized with atmospheric oxygen. A thermal conductor (6), preferably metal, supplies heat back to the capillary section, to cause vaporization of the liquid fuel. An Independent claim is included for the catalytic oxidation of fuel. Energy for vaporization of the fuel is supplied to it through

the material forming the capillaries. Preferred Features: Two nested tubes (1, 2) form an annular zone, with a catalyst (4) including a mixing zone (3) at one end. The tubes project into the mixing zone. The catalyst includes a heat transfer unit (6) with built-in thermally-conductive material. The catalyst is surrounded by thermally-conductive material. In the annular gap, fluid-permeable material is included, especially mineral, glass or metal wadding. The catalyst is for oxidation, and is preferably made of ceramic foam, especially with three-dimensionally cross-linked pores. A water supply is provided, if appropriate via one or more annular gaps. Heat produced by oxidation in the catalyst is transferred into the annular gap, by thermally-conductive material, preferably metal, and is used to evaporate the fuel. Water is supplied in addition, so that the burner can be operated as a reformer. The temperature at which fuel emerges from the flow path with capillary effect, lies below the self-ignition temperature of the fuel.

If no translation of pertinent portions of any foreign language patents or publications mentioned within the "INFORMATION DISCLOSURE STATEMENT BY APPLICANT" is included with the aforementioned copies of those applications, patents and/or publications, it is because no existing translation is readily available to the Applicant. As per the Notice in 1273 OG 55 (August 5, 2003) no copies of any above-mentioned US patents and US patent application publications are submitted for this application which was filed after June 30, 2003.

Respectfully submitted



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March 14, 2006

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(Use as many sheets as necessary)

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| Sheet | 1 | of | 2 |
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|------------------------|----------------|
| Application Number | Unassigned |
| Filing Date | Herewith |
| First Named Inventor | Elmar Stumpf |
| Art Unit | |
| Examiner Name | |
| Attorney Docket Number | 2003P01328WOUS |

[illegible]

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----------------------|--------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------|---------------------------------------------------------------------------|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T ² |
| | | Country Code ³ ~Number ⁴ ~Kind Code ⁵ (<i>if known</i>) | | | | |
| | | DE 101 61 154 | 06-18-2003 | Elmar Stumpf et al | | |
| | | DE 31 30 542 | 02-17-1983 | Ernst Roehner | | |
| | | DE 34 29 686 | 02-20-1986 | Friedhelm Kuehn et al | | |
| | | DE 195 18 787 | 11-28-1996 | Stephan Hermann | | |
| | | DE 100 42 479 | 03-14-2002 | Franz Fuder et al | | |
| | | GB 2 236 588 | 04-10-1991 | Phillip J. Millener et al | | ✓ |

Date
Considered

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. **SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

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